

**EDocket No.: 043876-0148 PATENT** 

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of

Customer Number: 20277

Craig HANSEN, et al.

Confirmation Number: 9134

Application No.: 10/712,430

Group Art Unit: 2183

Filed: November 14, 2003

Examiner: Unknown

For: SYSTEM AND SOFTWARE FOR CATENATED GROUP SHIFT INSTRUCTION

## SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

In accordance with the provisions of 37 C.F.R. 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the documents listed on the attached form PTO-1449. It is respectfully requested that the documents be expressly considered during the prosecution of this application, and that the documents be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

Applicants are submitting to the Office a single paper copy of each of the documents listed on the attached form PTO-1449 in connection with a corresponding Supplemental Information Disclosure Statement filing for U.S. Patent Application No. 10/418,113. Applicants are separately filing a Petition requesting waiver of Rules 1.4(b) and 98(a)(2), which requires copies of the documents listed on the attached form PTO-1449 to be provided herewith. In view of the Office's practice of scanning documents into the Image File Wrapper, it is believed that providing a single set of paper copies will enable the Office to process the papers efficiently and expedite the

## 10/712,430

Examiner's consideration of the same. Furthermore, the attached form PTO-1449 includes citations to some materials for which it is difficult to obtain additional copies. In view of the Petition and in the interests of efficiency, Applicants' respectfully request that a copy of each of the cited documents be made of record in the present application.

This Information Disclosure Statement is being filed within three months of the U.S. filing date OR before the mailing date of a first Office Action on the merits. No certification or fee is required.

Applicants bring to the Examiner's attention the following pending applications of Craig C.

Hansen et al., which may include subject matter related to the present application:

Application Number	Title
10/418,113	Multiplier Array Processing System With Enhanced Utilization At Lower Precision
10/436,340	System With Wide Operand Architecture, And Method
10/616,303	Programmable Processor And Method With Wide Operations
10/646,787	Method And Software For Partitioned Group Element Selection Operation
10/705,946	Programmable Processor And Method For Partitioned Group Shift
10/716,561	Programmable Processor And Method For Matched Aligned And Unaligned Storage Instructions
10/716,568	System And Software For Matched Aligned And Unaligned Storage Instructions
10/757,515	Method And Software For Multithreaded Processor With Partitioned Operations
10/757,516	Programmable Processor And System For Store Multiplex Operation
10/757,524	Programmable Processor And For Partitioned Group Element Selection Operation
10/757,836	Programmable Processor And System For Partitioned Floating-Point Multiply-Add Operation.

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10/757,851	Method And Software For Partitioned Floating-Point Multiply-Add Operations
10/757,866	Method And Software For Store Multiplex Operation
10/757,925	Method And Software For Partitioned Group Element Selection Operation
10/757,939	Multithreaded Programmable Processor And System With Partitioned Operations

The attached form PTO-1449 includes (but is not exclusively limited to) documents that were cited in on-going litigation proceedings between the assignee of the present application, Dell Inc. and Intel Corp. (U.S. District Court for the Eastern District of Texas, Marshall Division (Civil Action No. 2:04-CV-120(TJW)). This litigation involves seven patents that are in the same family as each of the above applications.

Additionally, some documents were cited in related foreign applications. A copy of the foreign search report or office action is attached for the Examiner's information.

Please charge any shortage in fees due in connection with the filing of this paper, including extension of time fees, to Deposit Account 500417 and please credit any excess fees to such deposit account.

Respectfully submitted,

McDERMOTT WILL & EMERY LLP

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Facsimile: 202.756.8087 **Date: June 10, 2005** 

Please recognize our Customer No. 20277 as our correspondence address.

SHEET 1 OF 11

# INCRMATION DISCLOSURE CITATION IN AN **APPLICATION**

ATTY. DOCKET NO. 043876-0148

SERIAL NO. 10/712,430

**APPLICANT** 

HANSEN, C., et al.

(PTO-1449)

FILING DATE

**GROUP** 

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<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

#### SERIAL NO. INFORMATION DISCLOSURE ATTY, DOCKET NO. 10/712,430 043876-0148 CITATION IN AN **APPLICATION** APPLICANT HANSEN, C., et al. FILING DATE **GROUP** (PTO-1449) 2183 November 14, 2003 OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.) Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, **EXAMINER'S** INITIALS journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where CITE NO. Ide, et al., "A 320-MFLOPS CMOS Floating-point Processing Unit for Superscalar Processors," p. 12-21, 28 March 1993, IEEE J. OF SOLID-STATE CIRCUITS. L-2 K. Uchiyama et al., The Gmicro/500 Superscalar Microprocessor with. Branch Buffers, IEEE Micro, October 1993, p. 12-21. L-3 Ruby B. Lee, Realtime MPEG Video Via Software Decompression on a PA-RISC Processor, IEEE (1995). 1-4 Karl M. Guttag et al. "The TMS34010: An Embedded Microprocessor", IEEE June 1988, p. 186-190. L-5 M. Awaga et al., "The μVP 64-bit Vector Coprocessor: A New Implementation of High-Performance Numerical Computation", IEEE Micro, Vol. 13, No. 5, October 1993, p.24-36. L-S Tom Asprey et al., "Performance Features of the PA7100 Microprocessor", IEEE Micro (June 1993), p. 22-35. L-7 Gove, Robert J., "The MVP: A Highly-Integrated Video Compression Chip," IEEE Data Compression Conf., March (1994), pp. 215-224. L-8 Woobin Lee, et al., "Mediastation 5000: Integrating Video and Audio," IEEE Multimedia, 1994, L-9 Karl, Guttag et. al "A Single-Chip Multiprocessor for Multimedia: The MVP," IEEE Computer Graphics & Applications, November, 1992, p. 53-64. L-10 TMS32OC8O (MVP) Master Processor User's Guide, Texas Instruments, March, 1995, p. 1-33. L-11 TMS320C80 (MVP) Parallel Processor User's Guide ["PP"]; Texas Instruments March 1995, p. 1-80. L-12 Shipnes, Julie, "Graphics Processing with the 88110 RISC Microprocessor," IEEE COMPCOM, (Spring, 1992) pp. 169-174. ILLIAC IV: Systems Characteristics and Programming Manual, May 1, 1972, p. 1-78. N, Abel et al., ILLIAC IV Doc. No. 233, "Language Specifications for a Fortran-Like Higher Level Language for ILLIAV IV, August 28, 1970, p. 1-51. L-15 ILLIAC IV Quarterly Progress Report: October, November, December 1969; Published January 15, 1970, pp. 1-15. L-16 N.E. Abel et al., Extensions to Fortran for Array Processing (1970) pp. 1-16. **EXAMINER** DATE CONSIDERED

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#### SERIAL NO. INFORMATION DISCLOSURE ATTY. DOCKET NO. 043876-0148 10/712,430 CITATION IN AN APPLICATION APPLICANT HANSEN, C., et al. FILING DATE GROUP (PTO-1449) 2183 November 14, 2003 OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.) Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, **EXAMINER'S** INITIALS journal, senal, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where CITE L-102 Patterson, Barbara, "Motorola Announces First High Performance Single Board Computer Using Superscalar Chip" Motorola Computer Group, p. 1-3 [http://badabada.org/misc/mvme197 announce.txt]. L-103 Culler, David E., et al., "Analysis Of Multithreaded Microprocessors Under Multiprogramming", Report No. UCBICSD 921687, May 1992 p.1-17. James Laudon et al., "Architectural And Implementation Tradeoffs In The Design Of Multiple-Context Processors", CSL-TR-92-523, May 1992 p. 1-24. L-109 Ide, et al., "A 320-MFLOPS CMOS Floating-point Processing Unit for Superscalar Processors," 28 IEEE Custom Integrated Circuits Conference, 1992, p. 30.2.1-30.2.4. L-106 High Speed DRAMs, Special Report, IEEE Spectrum, vol. 29, no. 10, October 1992. L-107 Moyer, Steven A., "Access Ordering Algorithms for a Multicopy Memory," IPC-TR-92-0 1 3, December 18, 1992. L-109 Moyer, Steven A., "Access Ordering and Effective Memory Bandwidth," Ph.D. dissertation. University of Virginia, April 5, 1993. L-109 "Hardware Support for Dynamic Access Ordering: Performance of Some Design Options", Sally McKee, Computer Science Report No. CS-93-08, August 9, 1993. L-110 McGee et al., "Design of a Processor Bus Interface ASIC for the Stream Memory Controller" p. 462-465. L-111 McKee et al., "Experimental Implementation of Dynamic Access Ordering," August 1, 1993, p. L-112 McKee et al., Increasing Memory Bandwidth for Vector Computations, Technical Report CS-93-34 August 1, 1993, p.1-18. L-113 Sally A. McKee et al., "Access Order and Memory-Conscious Cache Utilization" Computer Science Report No. CS-94-10, March 1, 1994, p.1-17. McKee, et. al., "Bounds on Memory Bandwidth in Streamed Computations," Computer Science Report CS-95-32, March 1, 1995. **EXAMINER** DATE CONSIDERED

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